



eCall™ User's Guide
Web Service Access

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1 Introduction

eCall's web service access allows you to send messages to various call systems using standardised web methods.

2 Requirements of Use

The following requirements must be met in order to send messages using web services:

- You must have an eCall business account.
- Access via web service must be set up in your business account.

3 Protocol

The processing of a transmission order to eCall requires up to four steps:

1. The client sends the transmission order to eCall using the web service.
2. eCall sends a result message to the client.
3. If requested, eCall optionally sends notification (SMS/pager message or e-mail) to the client.
4. If requested, eCall optionally sends a mobile phone recipient's reply.

4 Access via Web Services

4.1 General Information regarding Access via Web Services

The following functions can be accessed using the web services access:

- SendSMSBasic, to send text messages to a mobile phone or a pager,
- SendFaxBasic, to transmit simple faxes without attachments,
- SendFax, to transmit faxes with attachments and Header-Infos,
- SendVoiceBasic, to send a voice message.

Integrate eCall's web service in your project. In Visual Studio.NET, this takes place through the addition of a web reference to the project references. Afterwards, the functions can be accessed. The URL for the web service is:

<http://webservice.ecall.ch/>

or with SSL connection (requires certificate from Dolphin Systems):

<https://www2.ecall.ch/ecallwebservice/>

The available methods are listed at this site. If necessary, the WSDL data file or the SOAP-definitions can be viewed or saved as well.

NOTE: Parameters are case sensitive. Spelling must be strictly adhered to.

5 Message Formats

You can find all function names in the class eCall. In order to request the message status it is necessary to define the optional parameter JobID (see chapter 5.5).

5.1 Transmission Order for Text Messages

<u>Function Name:</u>	SendSMSBasic
<u>Must Parameter:</u>	Address, Message, AccountName, AccountPassword
<u>Optional Parameter:</u>	JobID
<u>Expanded Functions:</u>	SMSCallBack, Notification, AlwaysNotification, Answer, SendDate, Flash, NoLog

5.2 Transmission Order for Fax without attachments

<u>Function Name:</u>	SendFaxBasic
<u>Must Parameter:</u>	Address, Message, AccountName, AccountPassword
<u>Optional Parameter:</u>	JobID
<u>Expanded Functions:</u>	Subject, SendDate, CallingNumber, FaxHeaderID, FaxHeaderInfo, MaxRetries, RetriesTimeIntervallInMin, (NoCoversheet)

5.3 Transmission Order for Fax with attachments

<u>Function Name:</u>	SendFax
<u>Must Parameter:</u>	Address, Message, AccountName, AccountPassword
<u>Optional Parameter:</u>	JobID

Expanded Functions: FaxHeaderID, FaxHeaderInfo, Subject, SendDate, CallingNumber, MaxRetries, RetriesTimeIntervalInMin, NoCoversheet, Notification, Attachments (max. 10 allowed)
The array Attachments (max. 10 allowed) contains the subfields FileName und FileContent.
The filename has to be supplied without the path.

5.4 Transmission Order for Voice Messages

Function Name: SendVoiceBasic
Must Parameter: Address, Message, AccountName, AccountPassword
Optional Parameter: JobID
Expanded Functions: MessageLanguage, FromText, SendDate

5.5 Message Status Request

In order to use this function, the messages sent to eCall **have to** be supplied with a **JobID**. This JobID is an optional parameter in the methods for **sending messages**.

Function Name: GetStateBasic
Must Parameter: AccountName, AccountPassword; JobID (optional parameter for sending)
Optional Parameter: Address (Must parameter for sending)
Format: international numbering format with leading zeros and without blanks or special characters (e.g. 0041791234567).
This parameter should be supplied if the send request address was a number list or a group defined in eCall. If the address is not given in such a case, you'll receive the state of the last job within the Job ID.

Response structure:

Parameter	Possible Value
ServiceResponse	
ResponseCode	Delivers the Response code of the webservice according to the Answer table in chapter 6. If this code is not zero, then no information will be provided in the jobresponse.
ResponseText	Delivers the Response Text according to the Answer table in chapter 6
JobResponse	

Parameter	Possible Value
JobID	JobID of the send job
Address	Address of the send job
JobType	Job type. The possible jobtypes are listed in the table in chapter 7.1.
SendState	Send State. The possible send states are listed in the table in chapter 7.2.
ErrorState	Error state. The possible error states are listed in the table in chapter 7.3 Fehler! Verweisquelle konnte nicht gefunden werden. This state only occurs on fax requests. In the remaining cases, errors are represented by the SendState.
PointsUsed	Number of used Points for this job
FinishDate	Finish Date / Time of the job

5.6 Overview of all parameters

Must Fields for all send methods (called fields in web methods):

Parameter	Name
AccountName	Name of the eCall business account (e.g. "samplejohn")
AccountPassword	Password for the eCall business account (e.g. "12345")
Address	Complete call number (e.g. 0791112233) Pager number with legitimation code: the number and the code have to be separated with a double point (e.g. 074123456:1234) or a list of call numbers separated by a semicolon ; or the name of a person or group which is defined in your eCall addressbook
Message	Text to be seen on the pager/mobile phone

Optional Fields:

Parameter	Possible Value
Answer	Answer function using eCall (mobile phone or pager number, e-mail address, "" in the logbook) only applicable for mobile phones, callback number cannot function in this case. (e.g. "name@domain.ch")
SMSCallback	Callback number only applicable for mobile phones, up to 16 numerical or up to 11 alphanumerical characters possible (e.g. "0791234567"). You cannot use a business number as a callback number! Note: If the "answer" parameter is transmitted, the "callback" value is ignored.
FromText	Identification text and/or sender's number (e.g. „0791234567“).
FaxHeaderID	Fax only: the sender number which the receiver can see in the fax header line (e.g. +41 44 123 45 67).
FaxHeaderInfo	Fax only: an additional text which the receiver can see in the fax header line (e.g. your name or company name).
JobID	Definite message identification (e.g. „123AB“).
MessageLanguage	Voice only: Determines the language in which the text is read out. The language parameters are as follows: German=DE, French=FR, Italian=IT, English=EN Default: Language is automatically recognized.
MsgType	Transmission option for a specific type of message. Defined types are: - Flash -> Flash-SMS; - PrioSMS+ -> PrioSMS+.
AlwaysNotification	Receiving address (SMS/pager number or mail address) for notification, as soon as something in the message status (pager or mobile phone) has changed (e.g. „name@domain.ch“).

Parameter	Possible Value
Notification	Receiving address for notification, as soon as the mobile phone recipient has received the message (mobile phone or pager number, e-mail address, "" in the logbook) (e.g. "0791234567", "john.sampler@mailserver.ch"). Note: If the „alwaysnotification“ parameter is transmitted, then the "notification" parameter is not needed.
NoLog	The message will not be written in the logbook with this parameter delivery. ("","true","false"). Default value is "false"
SendDate	Determines the sending time of the order, in the case of delayed sending (e.g. "2004-12-20 20:31:50").
Subject	Message title
Attachments	Fax only: Files to be attached. Contains the following subfields: - .FileName: Filename WITHOUT Folders - .FileContent: Content of the File, Base64-encoded
TokenFields	Fax only: Additional information for infofields (placeholders) and controlfunctions. Format: "<NameToken1>=<ValueToken1>;<NameTokenN>=<ValueTokenN>" Supported TokenFields: - MaxRetries (Indicates the maximum of retries for a job) - RetriesTimeIntervallInMin (Indicates the time in minutes the job is waiting between two retries) - NoCoversheet (Sends no cover sheet; Default value is "false") e.g. „MaxRetries;=6;RetriesTimeIntervallInMin;=20“ means: the job will be repeated six times all twenty minutes (if necessary, of course).

Answers:

A response with the following configuration is always sent back. If the ResponseCode is not equal to 0, the message could not be sent.

Parameter	Possible Value
ResponseCode	Delivers the Response code according to the Answer table in chapter 6
ResponseText	Delivers the Response Text according to the Answer table in chapter 6

5.7 Result Message

The Send Web methods give the Response Code and the Response Text back as a reply, according to the Answer Table.

Please note that the result message OK only shows that the transmission order was accepted by eCall. It does not say whether or not the order was successfully transmitted to the appropriate call center or to the recipient. eCall uses other mechanisms for this purpose (log, notification).

6 Answers

ResponseCode	ResponseText	Description
0	OK	The message was sent
11000	SyntaxError	Syntax Error
11001	PermissionDenied	Access denied
11100	AdrAdCInvalid	Invalid or incorrect recipient address
11101	AdrNAdInvalid	Invalid or incorrect confirmation address
11102	AdrAdCMissing	Missing recipient address
11103	AdrNAdMissing	Missing notification address
11104	AdrAdCTooMany	Too many recipient addresses transmitted
11105	AdrAdCNotAllowed	Recipient address not within defined area
11200	MsgNoCharacters	No message existent
11201	MsgInvalidCharacters	Invalid characters in the message
11202	MsgSendTimeInvalid	Invalid sending time given
11203	MsgSendTimeNotAllowed	Sending time is not within time window
11204	MsgTooLong	SMS/Pager only: Message is too long. In this case you have to check the setting „maximum number of pages for long messages“ in eCall.
11300	AccNoUser	Unknown User
11301	AccNoUnits	Not enough credits in account
11303	AccNoFreeUnits	Not enough free credits in account
11400	CallSystemInvalid	Invalid call system
11401	CallSystemInvalidForUser	Invalid call system for this user
11402	CallSystemNotSupported	Call system is not supported
11403	CallSystemConfused	Call system is temporarily out of order
11500	IDMissing	ID is missing
11501	IDInvalid	ID could not be found
11502	IDDoesNotExist	ID does not exist in the system
11600	StateAlreadyTransmitted	Message was already transmitted
11700	DataReadError	Data contents could not be read
11800	CBMsgError	Callback contains a forbidden number or text
11904	Too many attachments	Too many attachemts uploaded (max. 10 allowed)
11905	Attachment(s) too large	At least 1 attachment is too large. Max. size for attachments is 5 MB
11906	File type not supported	File type is not supported as attachment. The following types are supported by eCall: bmp, pdf, doc, rtf, ppt, dok, snp, gif, tif, tiff, html, txt, jpg, wir, jpeg, xls, zip
11907	Error while processing the attachments	There was an unexpected internal error while processing the attachments.

ResponseCode	ResponseText	Description
11908	Error while saving the attachments	There was an unexpected internal error while saving the attachments.
11910	Job not found in Log	Job could not be found in the log
11911	JobID required	In a job status request you have to submit a JobID
11912	Job is scheduled	Job is not executed yet but scheduled

7 Status Request Tables

7.1 Job Type

JobType	Description
1	SMS or pager-message
2	Mail-message
3	IP-message
4	Delete request
5	Voice-message
6	Fax-message
7	Picture
8	Logo
9	Ringtone
10	MMS-message

7.2 Send State

Type	SendState	Description
SMS / Pager	0	Transmitting
	1	Transmission OK
	2	Error The error detail can be found in the field ErrorState, the description in chapter 7.3
	3	Scheduled transmission time
	8	Transmission OK (reception confirmed)
	9	Transmission OK (reception not yet confirmed, waiting to deliver message)
	10	Transmission OK (reception not confirmed, message delivered)
Voice	30	Message is being transferred to voice system.
	31	Message successfully transferred to voice system.
	32	Transfer of message to voice system was not successful.
	33	Message played successfully
	34	Message played successfully and feedback received
	35	Message with invalid phone number.
	36	Message reception confirmed
	37	No connection within defined time range.
	38	Receiver is being called
	39	Receiver could not be reached, retry pending
Fax	101	Job group successfully assigned at gateway
	201	Started converting

Type	SendState	Description
	202	Single file converted
	301	Merging documents of fax message
	401	Fax message is being processed
	402	Processing Single Job finished
	501	Processing Job group finished
	41	Fax message successfully transmitted
	42	Error The error detail can be found in the Field ErrorState, the description in chapter 7.3
	43	Transmission waiting
	44	Request newly issued

7.3 Error State

Type	ErrorStatus	Description
SMS / Pager	71	No Job accepted message from gateway
	1000	Connection cancelled
	1001	Timeout: The message could not be sent.
	5111	The text is too long
	5112	Invalid call number
	5120	Ziel-Rufnummer ist eine Tonrufnummer: Meldung unzulässig
	5121	Ziel-Rufnummer ist eine Numeriknummer: Unzulässiges Zeichen
	5155	Zu starker Verkehr
	5164	Call system troubled
	5502	Message from provider: Syntax error
	5504	Message from provider: Operation not allowed - Maximum messages for the address exceeded
	5506	Message from provider: ADC invalid
	5509	Invalid call number
Fax	6000	Unknown error
	6002	Error converting the documents
	6004	No response
	6005	Empty order
	6006	Line busy
	6007	Call rejected
	6009	Unknown calling number
	6010	Invalid calling number
	6011	Number changed
	6013	The receiver is not a fax device
	6014	Connection dropped by sender
	6015	Connection dropped by receiver
	6016	Fileformat not supported
	6017	No access to file